

Roof surveys will never be the same!



IDENTIFY THE DAMAGE with ThermaCAM® RoofCAM

The ThermaCAM® RoofCAM is a breakthrough lightweight and affordable infrared camera designed specifically for the roofing industry. This self-contained, handheld device enables operators to locate damage and/or deterioration caused by water leakage in roofing systems, as stated in the ASTM C 1153 "Standard Practice for Location of Wet Insulation in Roofing Systems Using Infrared Imaging." The RoofCAM can save an enormous amount of time and money by pinpointing and enabling the repair of wet, failed areas of a roof, rather than replacing an entire roofing system.

Water leakage is the number one factor that leads to moisture damaged insulation, corrosion and weakening of metal decks and building structure—even structural collapse, and the growth of mold. Leaks may be caused by traffic, weather, or poor installation. Since water has a higher thermal mass than many roofing materials, it retains heat longer and can be easily detected with a thermal imaging system. Using the new RoofCAM, maintenance professionals can quickly locate and mark all the areas of wet substrate materials during an infrared survey and repair those areas before any further moisture damage occurs.

The RoofCAM weighs less than 1.5 pounds with battery, thus eliminating the process of hauling up big, bulky cameras up on the roof. Rugged and weatherproof, it is designed for use in the rooftop environment. The camera can easily be carried in a holster for your convenience. Its large, high resolution color LCD screen offers crisply detailed infrared images. As a result, you can see every bit of detail on your reports. Thermal imaging systems are also the only tools used to detect roofing system mois-

ture without the need of a data grid.

Infrared technology has been used to diagnose building components for over 25 years. This proven technology means making money for the IR roof consultant, and saving time and money for appreciative building owners!

FEATURES

- AFFORDABLE
- RUGGED, LIGHTWEIGHT, AND WEATHER-RESISTANT
- WIDE-ANGLE FIELD-OF-VIEW
- BUILT-IN LASER LOCATIR™
- FLEXIBLE JPEG IMAGE STORAGE
- LCD SCREEN FOR EASY VIEWING
- EASY TO OPERATE

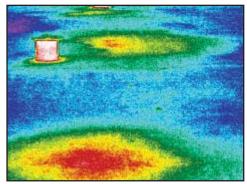
BENEFITS

- EVALUATE ROOFING SYSTEMS **QUICKLY AND ACCURATELY**
- SAVE TIME AND MONEY **THROUGH COST-EFFECTIVE REPAIRS**
- TRACK WATER LEAKAGE, CORROSION, MOLD, AND MISSING INSULATION
- AVOID MISLEADING ANOMALIES

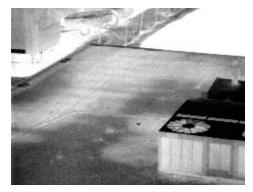
Scan, Report, Repair!

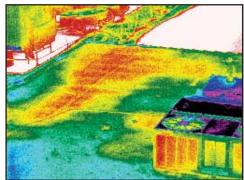
Infrared cameras provide the only real-time visual inspection methods and do not require construction of a grid. This walk over method enables the user to accurately verify and measure the location of the wet areas.





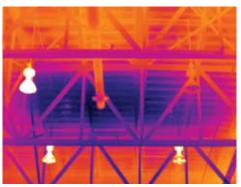
In this infrared image, the deteriorated areas of the roof are clearly shown—at the time of inspection.





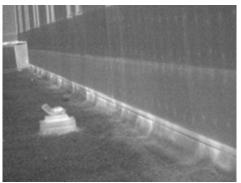
Interior infrared survey conducted during daytime hours reveals a central area of the deck that is saturated with moisture and in need of immediate repair, but is undetectable to the naked eye. Infrared can be used to scan thousands of square footage quickly and accurately.





A pattern of air leakage is present in this photo. It was discovered that when snow would "drift" against this wall, a water leak would develop. Further examination of the base flashing detail revealed a significant crack at the bottom of the EIFS (exterior insulation finish system) through which melted snow was leaking into the building.





*Images and content were provided by Thermo-Scan Inspections, American Infrared Testing & Consulting, Murray Roofing
Company, Sleuth Building Diagnostics, Thermographic Imaging / ESP Photography and the Infrared Training Center.

About FLIR Systems

With over 30 years experience and more than 30,000 of its IR cameras in use, FLIR is the undisputed global leader in infrared systems. From industrial to military applications, thermography professionals have made FLIR their number one choice. No other company offers such a wide range of infrared cameras, software, service, training and support.

FLIR's ThermaCAM series of thermal imaging cameras have long set the standard for thermographic testing and analysis. Today they are the most widely used non-contact temperature measurement infrared cameras in the world.



The Global Leaders in Infrared Cameras

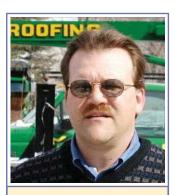
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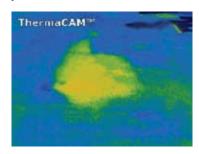
INFRARED SUCCESS STORIES

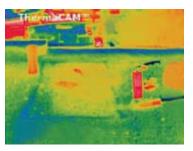
Locate and Repair Only the Damaged Sections

The IR images are of areas in a large roof, approx. 28,000 square feet. You can actually see the board patterns. The roof underlayment consisted of 2 inch thick perlite on a steel deck substrate. The waterproof top layer is built-up coal tar pitch plies with a pea gravel surface. The IR camera reveals wet perlite that can be torn out and replaced with dry insulation. Then a patch is installed to restore water tight integrity. This saves the customer from total roof replacement, which may cost in this case from \$90,000 to \$119,000 for a complete tear off and new roof. The total wet area found and removed was about 1,200 square feet. The cost for repair was just \$5,400.



John R. Tendorf Murray Roofing Company, Inc.





Roof Sleuth Solves Water Mystery!

Florida International University – Campus Support Complex by Sleuth Building Diagnostics, Inc.

Sleuth Building Diagnostics, Inc. performed a post-construction infrared survey of the roof of the new Campus Support Complex at Florida Intl. University. The purpose of the study was to determine if water infiltration occurred during the construction of the roofing installation. The infrared survey revealed several areas of extensive water intrusion into the new roof system. These areas comprised approximately 4,000 sq. ft. of the new 70,000 sq. ft. roof, representing a potential cost of over \$30,000. None of this cost was incurred by the university, as the contractor replaced all areas of wet insulation and associated roof components at his own cost.



